ABSTRACT OF THE DISCLOSURE

A video signal processing apparatus and a computer system integrated with the video signal processing apparatus are disclosed. The video signal processing apparatus has a tuner, a video processor, a non-interlaced signal processing unit, a microprocessor, and a computer signal converter. In the video signal processing apparatus, the display can be instantly turned on and the video signal can be recorded in the storage media of a computer, and the video signal recorded in the storage media can be displayed on the display. While watching the video signal on the display, a user can execute applications in the computer simultaneously. The video signal processing apparatus further provides picture-in-picture feature by adding another set of tuner and video processor. The video signal processing apparatus can be integrated with a display or a computer, and can also be used as an external-enclosure video signal processing apparatus.